



51002.ST25.txt
SEQUENCE LISTING

<110> Klem, Robert E.
<120> Methods and Compositions for Treating a Cell-Proliferative
Disorder Using CRE Decoy Oligomers, Bcl-2 Antisense Oligomers,
and Hybrid Oligomers Thereof
<130> 112475/51002
<140> 10/053,645
<141> 2002-01-22
<150> US 60/263,244
<151> 2001-01-22
<160> 57
<170> PatentIn version 3.2
<210> 1
<211> 20
<212> DNA
<213> Artificial
<220>
<223> Synthetic antisense oligonucleotide
<400> 1
cagcgtgcgc catccttccc 20

<210> 2
<211> 35
<212> DNA
<213> Artificial
<220>
<223> Synthetic antisense oligonucleotide
<400> 2
cttttcctct gggaggatg ggcgcacgctg ggaga 35

<210> 3
<211> 20
<212> DNA
<213> Artificial
<220>
<223> Synthetic antisense oligonucleotide
<400> 3
gatgcaccta cccagcctcc 20

<210> 4
<211> 33
<212> DNA
<213> Artificial
<220>
<223> Synthetic antisense oligonucleotide

51002.ST25.txt

<400> 4
acggggtagc gaggctgggt aggtgcacatct ggt 33

<210> 5
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 5
acaaaggcat cctgcagttg 20

<210> 6
<211> 36
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 6
cccccaactg cagatgcct ttgtgaaact gtacgg 36

<210> 7
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 7
ggaaaggatg gcgcacgctg 20

<210> 8
<211> 17
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 8
cgcggtgcgac cctcttg 17

<210> 9
<211> 17
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 9
taccgcgtgc gaccctc 17

51002.ST25.txt

<210> 10	
<211> 17	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 10	
tcctaccgcg tgcgacc	17
<210> 11	
<211> 17	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 11	
ccttcctacc gcgtgcg	17
<210> 12	
<211> 17	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 12	
gacccttcct accgcgt	17
<210> 13	
<211> 17	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 13	
ggagaccctt cctaccg	17
<210> 14	
<211> 15	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 14	
gcggcggcag cgcgg	15
<210> 15	

51002.ST25.txt

<211> 15
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 15
cggcggggcg acgga 15

<210> 16
<211> 16
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 16
cgggagcgcg gcgggc 16

<210> 17
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 17
tctcccagcg tgcgccat 18

<210> 18
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 18
tgcaactcacg ctcggcct 18

<210> 19
<211> 106
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 19
gcgcccgccc ctccgcgccc cctgcccgc cgcggccgc gctccgcggc gccgctctcc 60
ccttattgtt aaaaacatgt tagaagcaat gaatgtatat aaaagc 106

<210> 20
<211> 717

51002.ST25.txt

<212> DNA
<213> *Homo sapiens*

<220>
<221> CDS
<222> (1)..(717)

51002.ST25.txt

210

215

220

717

ctg gtg gga gct tgc atc acc ctg ggt gcc tat ctg agc cac aag
 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Ser His Lys
 225 230 235

<210> 21
 <211> 239
 <212> PRT
 <213> Homo sapiens

<400> 21

Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
 1 5 10 15

Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
 20 25 30

Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
 35 40 45

Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
 50 55 60

Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
 65 70 75 80

Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
 85 90 95

Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
 100 105 110

Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
 115 120 125

Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
 130 135 140

Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
 145 150 155 160

Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
 165 170 175

Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
 180 185 190

Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
 Page 6

51002.ST25.txt

195

200

205

Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
 210 215 220

Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Ser His Lys
 225 230 235

<210> 22
 <211> 615
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(615)

<400> 22	48
atg gcg cac gct ggg aga acg ggg tac gac aac cgg gag ata gtg atg	
Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met	
1 5 10 15	
aag tac atc cat tat aag ctg tcg cag agg ggc tac gag tgg gat gcg	96
Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala	
20 25 30	
gga gat gtg ggc gcc gcg ccc ccg ggg gcc gcc ccc gca ccg ggc atc	144
Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile	
35 40 45	
ttc tcc tcc cag ccc ggg cac acg ccc cat cca gcc gca tcc cgc gac	192
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp	
50 55 60	
ccg gtc gcc agg acc tcg ccg ctg cag acc ccg gct gcc ccc ggc gcc	240
Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala	
65 70 75 80	
gcc gcg ggg cct gcg ctc agc ccg gtg cca cct gtg gtc cac ctg gcc	288
Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala	
85 90 95	
ctc cgc caa gcc ggc gac gac ttc tcc cgc cgc tac cgc ggc gac ttc	336
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe	
100 105 110	
gcc gag atg tcc agc cag ctg cac ctg acg ccc ttc acc gcg cgg gga	384
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly	
115 120 125	
cgc ttt gcc acg gtg gtg gag gag ctc ttc agg gac ggg gtg aac tgg	432
Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp	
130 135 140	
ggg agg att gtg gcc ttc ttt gag ttc ggt ggg gtc atg tgt gtg gag	480
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu	
145 150 155 160	
agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg	528

51002.ST25.txt

Ser	Val	Asn	Arg	Glu	Met	Ser	Pro	Leu	Val	Asp	Asn	Ile	Ala	Leu	Trp	
165									170						175	
atg	act	gag	tac	ctg	aac	cgg	cac	ctg	cac	acc	tgg	atc	cag	gat	aac	576
Met	Thr	Glu	Tyr	Leu	Asn	Arg	His	Leu	His	Thr	Trp	Ile	Gln	Asp	Asn	
180								185				190				
gga	ggc	tgg	gta	ggt	gca	tct	ggt	gat	gtg	agt	ctg	ggc			615	
Gly	Gly	Trp	Val	Gly	Ala	Ser	Gly	Asp	Val	Ser	Leu	Gly				
195						200					205					
<210>	23															
<211>	205															
<212>	PRT															
<213>	Homo sapiens															
<400>	23															
Met	Ala	His	Ala	Gly	Arg	Thr	Gly	Tyr	Asp	Asn	Arg	Glu	Ile	Val	Met	
1				5				10				15				
Lys	Tyr	Ile	His	Tyr	Lys	Leu	Ser	Gln	Arg	Gly	Tyr	Glu	Trp	Asp	Ala	
20					25						30					
Gly	Asp	Val	Gly	Ala	Ala	Pro	Pro	Gly	Ala	Ala	Pro	Ala	Pro	Gly	Ile	
35						40					45					
Phe	Ser	Ser	Gln	Pro	Gly	His	Thr	Pro	His	Pro	Ala	Ala	Ser	Arg	Asp	
50						55										
Pro	Val	Ala	Arg	Thr	Ser	Pro	Leu	Gln	Thr	Pro	Ala	Ala	Pro	Gly	Ala	
65					70				75				80			
Ala	Ala	Gly	Pro	Ala	Leu	Ser	Pro	Val	Pro	Pro	Val	Val	His	Leu	Ala	
								90					95			
Leu	Arg	Gln	Ala	Gly	Asp	Asp	Phe	Ser	Arg	Arg	Tyr	Arg	Gly	Asp	Phe	
					100				105				110			
Ala	Glu	Met	Ser	Ser	Gln	Leu	His	Leu	Thr	Pro	Phe	Thr	Ala	Arg	Gly	
						115					120			125		
Arg	Phe	Ala	Thr	Val	Val	Glu	Glu	Leu	Phe	Arg	Asp	Gly	Val	Asn	Trp	
					130				135			140				
Gly	Arg	Ile	Val	Ala	Phe	Phe	Glu	Phe	Gly	Gly	Val	Met	Cys	Val	Glu	
							145			155				160		
Ser	Val	Asn	Arg	Glu	Met	Ser	Pro	Leu	Val	Asp	Asn	Ile	Ala	Leu	Trp	
					165				170				175			

51002.ST25.txt

Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
180 185 190

Gly Gly Trp Val Gly Ala Ser Gly Asp Val Ser Leu Gly
195 200 205

<210> 24
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 24
ctgacatcac

10

<210> 25
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 25
ctgacaccag

10

<210> 26
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 26
gcgcggcggg cgggcggca

20

<210> 27
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 27
gggcggaggc cggccggcgg

20

<210> 28
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

51002.ST25.txt

<400> 28
agcggcggcg gcggcagcgc 20

<210> 29
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 29
gggcccggaa gggcgccgc 20

<210> 30
<211> 84
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 30
ttcagcaaaa atgtcgacat atcttccaca ccccccgtt tctgacctct cagcaaggca 60
tttggctttg aaaggccgtt ttgt 84

<210> 31
<211> 67
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 31
gaccgcattt tcaaaaagct gctctgagag tagatgacgt aaataaagcc cttgtaacag 60
tgacgta 67

<210> 32
<211> 29
<212> DNA
<213> Artificial

<220>
<223> Synthetic antisense oligonucleotide

<400> 32
cccttcaccc acctagctct gtcccgca 29

<210> 33
<211> 34
<212> DNA
<213> Artificial

<220>

51002.ST25.txt

<223> Synthetic antisense oligonucleotide

<400> 33

tgacgtcatc tcccagcgtg cgccattgac gtca

34

<210> 34

<211> 52

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 34

tgacgtcatc tcccagcgtg cgccattctc ccagcgtgcg ccattgacgt ca

52

<210> 35

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 35

tctcccagcg

10

<210> 36

<211> 24

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 36

tgacgtcatg acgtcatgac gtca

24

<210> 37

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 37

tgacgtcatt tttgacgtca

20

<210> 38

<211> 19

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 38

tgacgtcatt ttgacgtca

<210> 39
 <211> 18
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic antisense oligonucleotide

<400> 39
 tgacgtcatt tgacgtca

<210> 40
 <211> 17
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic antisense oligonucleotide

<400> 40
 tgacgtcatt gacgtca

<210> 41
 <211> 11
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic antisense oligonucleotide

<400> 41
 tctcccaagcg t

<210> 42
 <211> 23
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic antisense oligonucleotide

<400> 42
 aggatggcgc acgctgggag aac

<210> 43
 <211> 57
 <212> DNA
 <213> Artificial

<220>
 <223> Synthetic antisense oligonucleotide

<400> 43
 tgacgtcattc tcccagcgtg cgccattgac gtcaacagag ggtcgacgc ggttagga

51002.ST25.txt

<210> 44	
<211> 12	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 44	
tctcccaagcg tg	12
<210> 45	
<211> 13	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 45	
tctcccaagcg tgc	13
<210> 46	
<211> 14	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 46	
tctcccaagcg tgcg	14
<210> 47	
<211> 15	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 47	
tctcccaagcg tgcg	15
<210> 48	
<211> 16	
<212> DNA	
<213> Artificial	
<220>	
<223> Synthetic antisense oligonucleotide	
<400> 48	
tctcccaagcg tgcgcc	16
<210> 49	
<211> 17	
<212> DNA	

51002.ST25.txt

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 49

tctcccagcg tgcgcca

17

<210> 50

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 50

cgtgcgccat

10

<210> 51

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 51

ccagcgtgcg

10

<210> 52

<211> 12

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 52

cccagcgtgc gc

12

<210> 53

<211> 14

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 53

tcccagcgtg cgcc

14

<210> 54

<211> 16

<212> DNA

<213> Artificial

<220>

51002.ST25.txt

<223> Synthetic antisense oligonucleotide

<400> 54

ctcccgagcgt gcgcca

16

<210> 55

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 55

ctcccgagcgt

10

<210> 56

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 56

tctcccgacgt

10

<210> 57

<211> 24

<212> DNA

<213> Artificial

<220>

<223> Synthetic antisense oligonucleotide

<400> 57

tgacgtcatc tcccagcgtg cgcc

24